

# IC-A120



## High Visibility, Simple Operation

The full dot-matrix LCD allows for high visibility and clearly shows alphanumeric characters and icons. Programming memory channels and other radio settings can be simply made from the front panel by radio users. These customizing functions can also be restricted, depending on the radio settings.

## Optional Bluetooth® Headset Connectivity

With the optional UT-133A Bluetooth® unit, the IC-A120 can be used with a third-party wireless Bluetooth® headset. Also, using the optional VS-3 Bluetooth® headset, the side tone function is available.

## Active Noise Cancelling (ANC)

The newly added built-in ANC reduces background noise in the received and transmitting signals. This function is effective in extremely noisy airport environments full of aircraft noise. The automatic noise limiter (ANL)\* reduces pulse-type noise such as engine ignition.

\* The ANL and ANC functions cannot be used at the same time.

## IP54 Dust-Protection and Water Resistance

The IC-A120 has IP54 dust-protection and water resistance. This construction allows for use in open-air vehicles.

## IC-A120

## **Dualwatch and ON-Hook Scan Functions**

The dualwatch function checks the priority and operating channels alternatively. The ON-Hook scan function automatically starts scanning when the hand microphone is hooked on the microphone hanger. When you take the microphone OFF hook, the scanning stops at the priority channel or displayed channel (according to the preprogramming).

## **Side Tone Function**

When using a third-party headset with the optional OPC-871A headset adapter, the side tone function allows you to monitor your own transmitted voice via the connected headset. Even when using a hand microphone, your voice can be monitored from the headset.

## Optional Speaker-Microphone, HM-217

Listen to received audio through the HM-217's built-in speaker. From the speakermicrophone's front panel, access up/down buttons and two programmable buttons (P1/P2) which can be used as a shortcut to activate frequently used functions.

#### Other Features

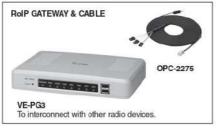
- · A total of 200 memory channels with 12-character channel names
- Both 12- and 24- volt systems compatible
- · 8.33 kHz\* and 25 kHz channel spacing \* Use of 8.33 kHz channel spacing is prohibited in Canada
- 36W (P.E.P.) RF output power
- Dualwatch and priority scan functions
- · Power on password protection
- PC programming capability
- CI-V Commands for external control
- · VE-PG3 RoIP gateway for interconnect with other radio devices

#### **OPTIONS**









## **SPECIFICATIONS**

GENERAL	IC-A120	
Frequency coverage (Tx/Rx)	118.000-136.992MHz	
Channel spacing	25kHz/8.33kHz	
Type of emission	6K00A3E, 5K60A3E (FCC/EXP)	
	6K00A3E (Industry Canada)	
Operating temperature	-30°C to +60°C; -22°F to +140°F	
Frequency stability	±5ppm (-30°C to +60°C; -22°F to +140°F	
Antenna connector	SO-239 (50Ω)	
Number of memory channels	200 channels	
Power supply requirement	13.75V/27.5V DC	
Current drain (at 13.75V)		
Transmitting	5.0A (maximum)	
Receiving	4.0A (at AF max.), 0.5A (at stand-by)	
Dimensions (WxHxD,	161×45×175 (mm);	
Projections not included)	6.34×1.77×6.89 (in) (approximately)	
Weight (approximately)	1.5kg; 3.3lb (main unit)	
TRANSMITTER		
Output power (at 13.75V)	9.0W typical	
(Carrier Power)	10.0W maximum	
Spurious emissions	Less than -60dBc	
Modulation capability	70% to 100%	
Microphone impedance	600Ω	
RECEIVER		
Intermediate frequencies	38.85MHz/450kHz (1st/2nd)	
Sensitivity (at 6dB S/N)	Less than 1µV	
Selectivity 8.33kHz	2.778/7.37kHz (6dB/60dB)	
25kHz	8/25kHz (6dB/60dB)	
Spurious response	More than 74dBµ	
Audio output power	(10% distortion, 60% modulation)	
Internal SP (8Ω load)	1.5W typical	
External SP (8Ω load)	More than 10W	
Headphone (500Ω load)	More than 100mW	

Industry Canada for USA version. All stated specifications are subject to change without notice or obligation.

#### Applicable U.S. Military Specifications

Standard	MIL 810 G		
Method	Procedure		
Low Pressure 500.5	1, 11		
High Temperature 501.5	L II		
Low Temperature 502.5	1,31		
Temperature Shock 503.5	I-C		
Solar Radiation 505.5	1		
Humidity 507.5	, II.		
Vibration 514.6	1		
Shock 516.6	I, IV		

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

### Applicable IP Rating

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistance)

#### Supplied Accessories

- O Hand microphone, HM-216
- O DC power cable O Mounting bracket kit
- O Microphone hanger kit O Fuses

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